

Liebermann-1

cited prior art does not have this physical structure. Independent claim 25 has been amended to more clearly recite that the cooling element has a bend so that the element wraps around and extends along two intersecting pole surfaces, such surfaces being encircled by a pole winding. Finally, new independent claims 26-28 have been provided which recite that the cooling element has a nonplanar surface that is adjacent to two intersecting pole surfaces, such surfaces being encircled by a winding that wraps around this pole.

All of these different recitations are believed to describe a structural attribute of the cooling element that is not present in the prior art. Accordingly, each of the proposed amended and new independent claims along with their respective dependent claims are believed patentable over the cited prior art.

Several of the claims have been renumbered to overcome a typographical error.

If there are any fees due in respect to this amendment, please charge them to Deposit Account No. **03-3839**.

It is believed that the new claims are patentable and entry of a Notice of Allowance is earnestly solicited. If there are any unresolved issues requiring adverse action, the Examiner may contact applicant's representative at 973-596-4671.

Respectfully submitted,

*David R. Padnes*

David R. Padnes.  
Reg. No. 28,384  
Attorney For Applicant

**FAX RECEIVED**  
APR 30 2003  
TECHNOLOGY CENTER 2800

Gibbons, Del Deo, Dolan,  
Griffinger & Vecchione  
One Riverfront Plaza  
Newark, NJ 07102-5496

Liebermann-1

**MARKED UP CLAIMS**

1. (twice amended) A rotor for electrical equipment, said rotor having at least one pair of poles, each pole having a length and a width and a winding encircling said length and said width, and said rotor comprising  
~~a winding encircling each of said poles; and~~  
at least one element fabricated of heat conductive material, said element being separate from said poles and said winding, said element being disposed between at least one of said poles and its encircling winding, said element extending along said length between a first and a second location then and then turning at said second location to form an extension that extends a predetermined distance along said width and extending along the length and the width of that pole.

13. (twice amended) Electrical equipment comprising

a housing;

a stationary winding disposed within said housing and forming an aperture; and  
a rotor disposed within said aperture, said rotor including at least one pair of poles with a ~~winding encircling each pole,~~ each pole having a length and a width and a winding encircling said length and said width; and  
at least one element fabricated of heat conductive material, said element being separate from said poles and said winding, said element being disposed between at least one of said poles and its encircling winding, said element extending along said length between a first and a second location and then turning at said second location to form an extension that extends a predetermined distance along said width and extending along the length and the width of that pole.

Liebermann-1

17. (twice amended) A method of cooling a rotor for electrical equipment, said rotor having at least one pair of poles and a winding encircling each pole and each pole having a length and a width and a winding encircling said length and said width, said method comprising the steps of providing at least one element fabricated of heat conductive material; and disposing said element between each rotor pole and its encircling winding, said element extending along said length between a first and a second location and then turning at said second location to form an extension that extends a predetermined distance along said width said element extending along the length and width of that rotor pole.

2223. (amended) The method of claim 17 wherein said element encircles said at least one of the poles.

2324. (amended) The rotor of claim 10 wherein said wire is solid.

2425. (amended) A rotor for electrical equipment, said rotor having at least one pair of poles, each pole having at least two intersecting pole surfaces and a winding encircling these surfaces, and said rotor comprising a winding encircling each of said poles; and at least one element fabricated of heat conductive material separate from said pole and said winding, said element being disposed between at least one of said poles and its encircling winding, said element having a bend so that said element as to wraps around and extends along said two intersecting pole surfaces dimensions of that pole, said dimensions intersecting with one another and forming a nonzero angle therebetween.

Liebermann-1

26. (new) A rotor for electrical equipment, said rotor having at least one pair of poles, each pole having at least two intersecting pole surfaces and a winding encircling these surfaces, and said rotor comprising
- at least one element fabricated of heat conductive material, said element being disposed between at least one of said poles and its encircling winding, each element having a first nonplanar surface that is adjacent to said two intersecting pole surfaces.
27. (new) Electrical equipment comprising
- a housing;
- a stationary winding disposed in said housing and forming an aperture;
- a rotor disposed in said aperture, said rotor including at least one pair of poles, each pole having at least two intersecting pole surfaces and a winding encircling these surfaces, and
- at least one element fabricated of heat conductive material, said element being disposed between at least one of said poles and its encircling winding, each element having a first nonplanar surface that is adjacent to said two intersecting pole surfaces.
28. (new) A method of cooling a rotor for electrical equipment, said rotor having at least one pair of poles, each pole having at least two intersecting pole surfaces and a winding encircling these surfaces, said method comprising the steps of
- providing at least one element fabricated of heat conductive material, each element having a nonplanar surface; and
- disposing said element between each rotor pole and its encircling winding, said nonplanar surface of said element being adjacent to said two intersecting pole surfaces.